Amendments to the Claims

1. (Currently Amended) An apparatus to communicate a set of data symbols d(i) where i = 1, ..., n, where \underline{n} is a positive integer greater than one, the apparatus comprising:

a set of transmission lines l(i) where i = 1,...,n, where transmission line l(i) propagates a signal x(i) for i = 1,...,n;

a set of receivers r(i) where i = 1, ..., n, wherein receiver r(i) is connected to transmission line l(i) to receive the signal x(i) for each i = 1, ..., n;

a set of drivers t(i) where i=1,...,n, where driver t(i) is connected to transmission line l(i) to transmit the signal x(i) for each i=1,...,n; and

a mapper to map the set of data symbols d(i) to the signals x(i) for i = 1, ..., n, wherein for each i = 1, ..., n, x(i) is a function of d(i) and at least one d(j) for $j \neq i = 1$ wherein for each i = 1, ..., n, receiver r(i) provides an estimate of d(i) based upon the signal x(i) independently of x(j) for $j \neq i$.

- 2. (Original) The apparatus as set forth in claim 1, wherein the mapper comprises: a table, wherein the table stores words addressed by the set of data symbols, wherein for each i = 1, ..., n, the driver t(i) transmits the signal x(i) in response to a word stored in the table.
- 3. (Original) The apparatus as set forth in claim 1, wherein the mapper comprises:

a finite state machine, wherein the finite state machine in response the set of data symbols provides words to the set of drivers, wherein for each i = 1, ..., n driver t(i) transmits the signal x(i) in response to a word.

- 4. (Original) The apparatus as set forth in claim 1, wherein the set of transmission lines is such that transmission line l(i) for an i has capacitive coupling with another transmission line l(j) where $j \neq i$.
- 5.-8. (Cancelled)
- 9. (Currently Amended) A computer system comprising:

a set of transmission lines l(i) where i = 1,...,n, where transmission line l(i) propagates a signal x(i) for i = 1,...,n, where n is a positive integer greater than one; a first die comprising:

a set of drivers t(i) where i = 1,...,n, where driver t(i) is connected to transmission line l(i) to transmit the signal x(i) for each i = 1,...,n;

a mapper to map a set of data symbols d(i) to the signals x(i) for $i=1,\ldots,n$, wherein for each $i=1,\ldots,n$, x(i) is a function of d(i) and at least one d(j) for $j\neq i$; and

a second die, the first die connected to the second die by the set of transmission lines, the first die to communicate the set of data symbols d(i) where i = 1, ..., n to the second die, the second die comprising:

a set of receivers r(i) where i = 1,...,n, wherein receiver r(i) is connected to transmission line l(i) to receive the signal x(i) for each i = 1,...,n; wherein for each i = 1,...,n, receiver r(i) provides an estimate of d(i) based upon the signal x(i) independently of x(j) for $j \neq i$.

- 10. (Original) The apparatus as set forth in claim 9, wherein the mapper comprises: a table, wherein the table stores words addressed by the set of data symbols, wherein for each i = 1, ..., n driver t(i) transmits the signal x(i) in response to a word stored in the table.
- 11. (Original) The apparatus as set forth in claim 9, wherein the mapper comprises:

 a finite state machine, wherein the finite state machine in response the set of data symbols provides words to the set of drivers, wherein for each i = 1, ..., n driver t(i) transmits the signal x(i) in response to a word.
- 12. (Original) The apparatus as set forth in claim 9, wherein the set of transmission lines is such that transmission line l(i) for an i has capacitive coupling with another transmission line l(j) where $j \neq i$.

13.-16. (Cancelled)

17. (Currently Amended) A method to provide crosstalk equalization, the method comprising:

mapping a set of data symbols d(i), i = 1,...,n to a set of signals x(i), i = 1,...,n, where n is a positive integer greater than one, wherein for each i = 1,...,n, x(i) is a function of d(i) and at least one d(j) for $j \neq i$; and transmitting the set of signals on a set of transmission lines l(i), i = 1,...,n, where for each i = 1,...,n, x(i) is transmitted on transmission line l(i); and receiving the set of signals by a set of receivers r(i) where i = 1,...,n, wherein for each i = 1,...,n, receiver r(i) estimates the data symbol d(i) based upon the signal x(i) independently of the signals x(j) for $j \neq i$.

18.-21. (Cancelled)